# Closed Topic Search

Enter terms
Search

Reset Sort By: Close Date (descending)

- Relevancy (descending)
- Title (ascending)
- Open Date (descending)
- Close Date (ascending)
- Release Date (descending)

NOTE: The Solicitations and topics listed on this site are copies from the various SBIR agency solicitations and are not necessarily the latest and most up-to-date. For this reason, you should visit the respective agency SBIR sites to read the official version of the solicitations and download the appropriate forms and rules.

Displaying 321 - 330 of 340 results

1. A11a-T015: A Priori Error-Controlled Simulations of Electromagnetic Phenomena for HPC

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objectives of this STTR are to investigate numerical methods for predictably-accurate treatment of boundary conditions in electromagnetic and other wave-dominated phenomena, and to develop algorithms and computer software that can be implemented for military and commercial simulation applications. DESCRIPTION: High fidelity modeling of electromagnetic phenomena has become incre ...

STTR Army

2. A11a-T016: High Performance Complex Oxide Thin Film Materials to Enable Switchable Film Bulk Acoustic Resonators (FBAR) for Low-Loss Radio Frequency Devices

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop molecular beam epitaxy/ chemical vapor deposited (MBE/CVD or MOCVD) low-loss, tunable complex oxide thin film materials to enable compact, switchable FBAR filters operating in the 1-3 GHz frequency range. DESCRIPTION: In modern communication systems, frequency-agile and reconfigurable components are becoming increasingly necessary to cope with a multitude of signal frequen ...

STTR Army

3. A11a-T017: Sensitive and Shape-Specific Molecular Identification

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The development of a compact and portable instrument that couples mass spectrometry and Rydberg spectroscopy to provide a complete"fingerprint"of a molecule, including molecular mass as well as isomeric and conformeric identification. This instrument will enable a major increase in selectivity for threat identification in the field, while minimizing sample consumption, as well as in ...

STTR Army

4. A11a-T018: Thin-Film Multiferroic Heterostructures for Frequency-Agile RF Electronics

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The goal of the research is to demonstrate the feasibility of using thin-film multiferroic heterostructures as magneto-electric tunable RF isolators at frequencies above 10 GHz. DESCRIPTION: Magnetic-field tunable ferrite devices are currently used as resonators, filters, phase-shifters, circulators, isolators. Unfortunately, the tuning response times limit their use at higher frequ ...

STTR Army

## 5. A11a-T019: Rugged Automated Training System

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective of this STTR is to develop a machine that will reliably train small animals to detect explosives or other compounds of interest and will provide an objective unbiased measurement of the animal"s sensitivity and accuracy. DESCRIPTION: The Army is engaged in extensive humanitarian demining efforts. Demining is often necessary to restore farm land to agricultural use, ...

STTR Army

## 6. A11a-T020: Automated malware understanding and classification

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Automated techniques for understanding and classifying behavior of novel malware. DESCRIPTION: The number of new malware being encountered in the wild is steadily and rapidly increasing. Recent reports show that more than 5,000 new, unique malware samples are encountered daily. In order to keep pace and not fall behind in the arms race with malware creators, there is a dire need for ...

STTR Army

## 7. A11a-T021: Artificial Antibodies for Biological Sensing Based on DNA Origami

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To build artificial antibodies using DNA origami and develop novel types of electo-optical based biological sensing methodologies. DESCRIPTION: Nature is adept at producing molecules that can recognize and specifically bind to other molecules. In biological systems, antibodies can search out and selectively bind to specific target molecules in the presence of numerous other substance ...

STTR Army

## 8. A11a-T022: Integrated THz Plasmonic Chemical and Biological Sensors

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To design, fabricate, and demonstrate a new class of plasmonic sensors for chemical and biological sensing based on terahertz (THz) frequency quasi-optical spectroscopy. DESCRIPTION: The Army has an urgent need for new sensor-based plasmonic architectures for biological and chemical sensing, with superior sensitivity and high-volume processing capability. Examples include a novel nan ...

STTR Army

**9.** A11a-T023: Dual Fuel Use of JP-8 and Hydrogen for Improved Compression Ignition Engine Performance

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Determine the effect on engine performance of introducing hydrogen/syngas into a compression ignition engine and develop a means to produce the hydrogen/syngas in-situ. DESCRIPTION: The Army seeks to improve the fuel efficiency and/or emissions of its compression ignition engines. Compression ignitions engines are utilized across a variety of platforms including, but not limited ...

STTR Army

**10.** A11a-T024: Advanced Wavelength Tuners for Chem-Bio Detection Lasers

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: We are seeking advanced, robust wavelength tuners for laser transmitters operating in the 3-5 um and 8-12 um bands for application to point and standoff detection of chemical and biological agents. DESCRIPTION: A variety of wavelength agile laser transmitters are contemplated for advanced point and standoff sensors to probe for chemical and biological agents. These include most not ...

STTR Army

- First
- Previous
- …
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- 34
- Next
- Last

jQuery(document).ready( function() { (function ($) { $('#edit-keys').attr("placeholder", 'Search Keywords'); $('span.ext').hide(); })(jQuery); });